

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Search and rescue locating devices (SRLD): AIS SART equipment**

with type designation(s)  
**NAS-1000**

Issued to

**New Sunrise Co.,Ltd.**  
**Suzhou City, Jiangsu, China**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2020/1170**,

**item No. MED/4.55. SOLAS 74 as amended, Regulations III/4, III/6, III/26, IV/7 & IV/14,**  
**IMO Res. MSC.246(83), IMO Res. MSC.302(87), ITU-R M.1371-5 (2014)**

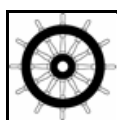
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-11-11**.

Issued at **Hamburg** on **2020-11-12**

DNV GL local station:  
**Shanghai**

Approval Engineer:  
**Harald Bluhm**



Notified Body  
No.: **0098**

for **DNV GL SE**

**Gerhard Aulbert**  
**Head of Notified Body**

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

1. The NAS-1000 AIS Search And Rescue Transmitter (AIS SART) is designed for emergency purposes as "SAR locating device" on liferafts and rescue boats.
2. Software version: 1.0x
3. User manual NAS-1000 SM.E 20130626-0x,  
Service manual NAS-1000 20130626-0x

## Type Examination documentation

Performance test report: IEC 61097-14 NSR-NVR9000-Test15081P  
Environmental/EMC test report: IEC 60945 Ship Test 2010-017

## Tests carried out

IEC 60945 (2002) including Corrigendum 1 (2008)  
IEC 61097-14 (2010)

## Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual. According to Article 10 of the Council Directive (MED):

- Wheel mark to be affixed visibly, legibly and indelibly to the product or to its data plate and, where relevant, embedded in its software. Where that is not possible or not warranted on account of the nature of the product, it shall be affixed to the packaging and to the accompanying documents.
- Wheel mark to be affixed at the end of the production phase. For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.

END OF CERTIFICATE